

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 56-029992

(43)Date of publication of application : 25.03.1981

(51)Int.Cl.

C12N 5/00  
// A61K 35/407  
(C12N 5/00  
C12R 1/91 )

(21)Application number : 54-103565

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(22)Date of filing : 16.08.1979

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## (54) METHOD OF FREEZING HEPATOCYTE

## (57)Abstract:

PURPOSE: Substance intracellularly and extracellularly protecting cells from freeze damage are added to a hepatocyte suspension and the suspension is frozen by gradual cooling, whereby higher than 80% viability of hepatocytes are ensured.

CONSTITUTION: To a suspension of hepatocytes are added at least one of substances intracellularly protecting from freeze damage selected from glycerol and dimethyl sulfoxide and at least one of substances extracellularly protecting from freeze damage selected from dextrin and albumin wherein the concentration of the intracellularly protecting substance is adjusted to 20w/v% or lower as glycerol or to 15w/v% or lower as dimethyl sulfoxide and in the range from 2W20w/v% as the total, while the extracellularly protecting substance is adjusted to 20w/v% or lower and the cooling rate is controlled to 0.1W3° C/min.

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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